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Volume 819, Issue 1, 3 April 2017, Article number 012013
37th International Conference on Quantum Probability and Related Topics, QP 2016; Faculty of Science of the International Islamic University MalaysiaKuantan; Malaysia; 22 August 2016 through 26 August 2016; Code 127147

The Fundamental Basis Theorem of Geometry from an algebraic point of view (Conference Paper)

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Abstract

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An algebraic analog of the Fundamental Basis Theorem of geometry is offered with a pure algebraic proof involving the famous Waring's problem for polynomials. Unlike the geometry case the offered system of invariant differential operators is commuting, which is a new result even in the classical geometry of surfaces. Moreover the algebraic analog works in more general settings then does the Fundamental Basis Theorem of geometry. © Published under licence by IOP Publishing Ltd.

Indexed keywords

Engineering controlled terms: Algebra Mathematical operators
Invariant differential operators
New results

Engineering main heading: Geometry

ISSN: 17426588
Source Type: Journal
Original language: English

DOI: 10.1088/1742-6596/819/1/012013
Document Type: Conference Paper
Volume Editors: Mukhamedov F.,Accardi L.,Pah C.H.
Sponsors:
Publisher: Institute of Physics Publishing

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